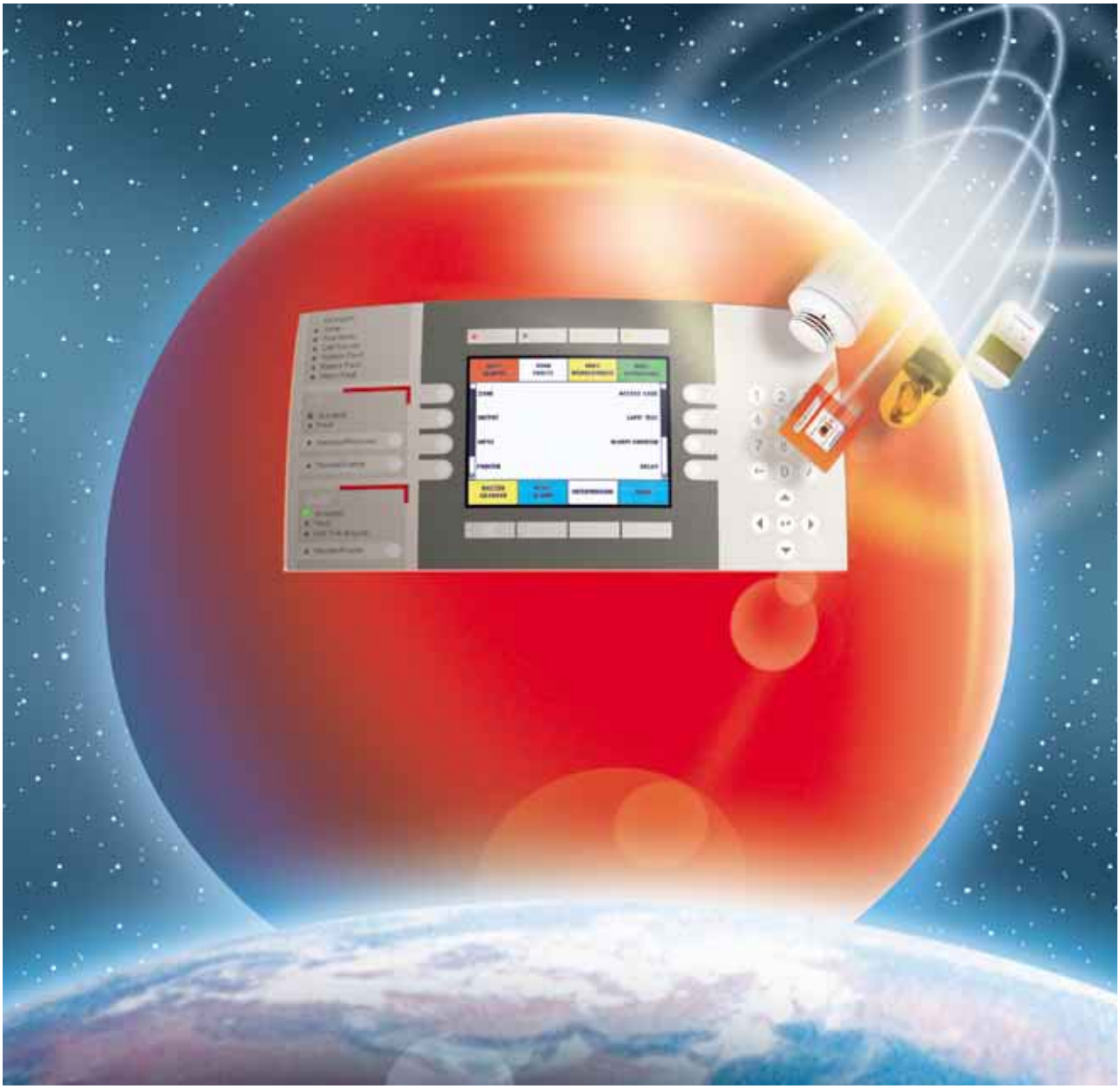

Fire Alarm Systems.

Technology for the future.

FIRE ALARM

SCHRACK SECONET

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Total security – used around the globe.

Competent Security Technology.
Schrack Seconet is an Austrian high tech company and is one of the leading market players in the security technology sector. In addition to our high quality range of products, we also offer a wide range of services such drawing up security concepts and system-based solutions.
The development of reliable fire alarm systems has a tradition. Considerable investment in research and development, as well as representation in international bodies and co-operation with technical universities, fire prevention bodies, fire brigade associations and testing institutes guarantee that our products are not only able to boast cutting edge technology, but that they also assume a pioneering role in working to ensure the security of people and valuables.

Full Redundancy.
A fire alarm control panel's job is to detect a fire at the earliest possible point in time. However, this is not possible, when a single fault is sufficient to prevent it from functioning properly. For this reason, the BMZ Integral is equipped with a 100 % redundancy system, as only then can its ability to work properly be guaranteed.
100 % redundancy means that two independent systems are housed within a single fire alarm control panel. If a fault occurs in the active half of the system, then the system automatically switches over to using the functional part of the system. Consequently, all the functions of the entire fire alarm system remain fully operational and fully available.

Three levels of security.
The decentralised construction of Schrack Seconet fire alarm control panels makes it possible to customise fire alarm systems to suit the individual wishes of the customer. It is possible to assemble small systems or large systems comprising of thousands of detectors without any problem. The subsystems are connected to one another by double circuit loops, with this so-called "Sub Control Unit Loop" also offering complete security, as the complete functional integrity of all system components and communications being guaranteed even in the event of a triple error occurring. Finally, the SecoNET networking concept allows subcontrol unit loops to be combined with one another to form networks, which makes it possible to extend the system almost limitlessly.

Fire alarm control panels.

The **BMZ Integral** is a modular fire alarm system, which can consist of between 1 and 16 subcontrol units depending on the size of the system. Up to 2048 modules using loop technology or 64 detector zones using conventional technology can be connected to each subcontrol unit The BMZ Integral is available with several different types of case (with or without a log printer or as a black box). Each control panel forms an autarchic unit with its own power supply and battery backup supply, to which external operating panels, fire brigade control panels, printers etc. can also be connected as well as detector zones and controllers. To ensure that system integrity is maintained, all components and modules and fitted in duplicate (fully redundantly), with the connections between the individual subcontrol units also being carried out via a double loop circuit. The BMZ Integral is suitable for connection to control systems, can be built in redundantly into subcontrol unit loops and networks and also contains connections for an internal modem and an external printer. The unit is programmed using a laptop and the user interface and display texts are available in 20 different languages.
Dimensions (H x W x D): 600 x 445 x 225 mm.

The **BMZ Integral C** is a compact 2 loop fire alarm control panel for use in small to medium-sized systems and consists of 1 to 16 subcontrol units depending on the size of the system. Up to 256 devices can be connected to each subcontrol unit using loop technology. The BMZ Integral C is available with several different types of case (with or without a log printer or as a black box). Each control panel forms an autarchic unit with its own power supply and battery backup supply, to which external operating panels, fire brigade control panels, printers etc. can also be connected as well as detector zones and controllers. The BMZ Integral C is suitable for connection to control systems, can be built in redundantly into subcontrol unit loops and networks and also contains connections for an internal modem and an external printer. The unit is programmed using a laptop and the user interface and display texts are available in 20 different languages.
Dimensions (H x W x D): 400 x 445 x 140 mm.

Alternatively, the **BMZ Integral C** can also be deployed as a standalone 4-Loop fire alarm control panel, being suitable for connection to up to 512 devices using loop technology in this instance.

The **BMZ Integral C1** is a non-modular non-networkable small-scale control panel for connecting a single loop circuit with up to 128 elements. The BMZ Integral C1 is available either with or without a log printer. Furthermore, external operating panels and fire brigade control panels can also be attached. The unit is programmed using a laptop and the user interface and display texts are available in 20 different languages.
Dimensions (H x W x D): 400 x 445 x 140 mm.

The **MMI-CIP and MMI-CPP external operating panels** can be connected to the Integral, Integral C and Integral C1 fire alarm control panels. Up to 8 external operating panels can be connected to a subcontrol unit via its own data bus, with a maximum distance of up to 1,200 m to the subcontrol unit. User interfaces and display texts are available in 20 languages.
Dimensions (H x W x D): 230 x 445 x 35 mm or 360 x 445 x 45 mm (with printer).

The **High-End Operating Panel** with a VGA colour display and function keys allows the easy operation of a fire alarm system and offers a structured overview of complex SecoNET fire alarm networks. The user interface and display texts are available in 20 languages.
Dimensions (H x W x D): 230 x 445 x 35 mm or 360 x 445 x 45 mm (with printer).

Controller units for extinguishing systems.

Automatic electronic control and delay mechanisms (=EST) are used to control stationary fire extinguishing systems. As a result of its unique redundancy concept and the particular degree of security that it grants for the wide range of uses, the **BLZ/SLZ Integral** system is also suitable and approved in accordance with the requirements of the standards and directives EN12094-1 and VdS 2496 for controlling and monitoring fire extinguishing systems with more than one extinguishing zone. For this kind of usage, special types of cabinet, additional modules and an LED parallel indicator panel are available.

- CO_2 – high & low pressure extinguishing systems where life is or is not endangered
- Inert gas and argon extinguishing systems where life is or is not endangered
- Water spray systems
- Pre-action sprinkler systems
- Sprinkler Systems
- Mist water spray systems
- Chemical extinguishing systems

The **BLZ/SLZ Integral C** can also be used, when using a special type of case, additional modules and an LED parallel indicator tableau, as a controller unit for single zone extinguishing systems.

Control system.

The **SecoLOG fire alarm control system** is a multi-location graphical control system which is used to display the state and operate fire alarm systems simply and clearly from a central location. All messages and system states of the fire alarm control panels that are connected to the system are collated and displayed clearly at one or more PC workstations. Additionally, all connected systems and their cabling are constantly monitored to ensure that they are functioning properly. The operating system is compliant with the highest technical requirements and has been tested and approved in accordance with Austrian standard ÖNORM F 3003.

Performance Characteristics:

- Simple standardised operation of fire alarm systems and fire alarm devices using messages and commands
- Maximum reliability
- Single and multiple location operating modes
- 2 monitor user interface gives a clear overview, with automatic changeover in the event of a fault and with a dynamic zoom function
- Hierarchical password system
- Continuous logging – with note and reports functions

Peripherals.

The **MTD 533 multiple sensor detector** can, as required and dependent on its intended application, be deployed as a smoke detector, a temperature detector or as a combined detector, and is programmed and set specifically for the environmental conditions that it is part of. The detector detects smouldering fires and open fires at an early stage by being able to detect and evaluate the characteristics of fire of smoke (by means of the Tyndall principle) as well as heat (NTC sensor principle). With the innovative CUBUS levelling process, specially designed for this detector, the new detector constantly measures atmospheric parameters such as absolute temperature, relative temperature increase and clearness of the air. From these parameters it determines the optimal sensitivity for every location it is to be deployed in, and sets itself accordingly – with costly deceptive alarms thereby being effectively avoided. The detector is suitable for connection to Integral loop technology, and a short circuit isolator ensures, in the event of a wire break or a short circuit, that the fault is localised and that the operation the loop circuit continues unimpeded.

- Fire alarm raised for smoke or heat, respectively smoke and heat
- Sensitivity towards smoke and heat class can be set in accordance with EN 54
- Alarm output for external indication of alarms
- Pre-alarm evaluation when 30% and 75% of the alarm threshold is reached
- 2 level contamination detection
- Adjustment of alarm thresholds to compensate for environmental influences
- Alarm filter for reducing the number of deceptive alarms
- Temperature-based smoke evaluation
- Software algorithm for evaluating the characteristics of the fire
- LED alarm indicator viewable from 360°
- Individual detector disablement
- Integrated short circuit isolator
- Available in every RAL colour upon request

The **USB 501 detector base** is used to connect all automatic detectors to Integral loop technology and is also available in various special versions for installation in cavity ceilings and concrete ceilings, as well as for use in wet rooms. A parallel indicator or a base-mounted siren can be attached to the USB 501 as required.

The **SLR-E-IS optical smoke detector** is designed specially for use in hazardous areas and is connected to the Integral loop circuit using a BX-AIM branch module and a Zener barrier. The detector contains 2 LEDs positioned opposite one another for indicating an alarm and is approved for use in class 1 and 2 hazardous areas.

The **DCD-1E-IS temperature detector** is a conventional class 1 maximum and change in temperature detector, with an additional fixed alarm threshold at 60°C and is designed especially for use in hazardous areas. The detector is connected to the Integral loop circuit using a BX-AIM branch module and a Zener barrier and contains 2 LEDs positioned opposite one another for indicating an alarm. The detector is approved for use in class 1 and 2 hazardous areas.

The **MCP 535 manual call point** is used to manually trigger a fire alarm (Type B in compliance with EN 54-11). The detector is fitted with an integrated short circuit isolator as standard and can be individually disabled. Any language can be quickly and simply selected by using interchangeable descriptor strips, with the detector available in various versions (various IP protection categories and colours).

The **MCP 545 manual call point** is used to manually trigger a fire alarm (Type A in compliance with EN 54-11). The detector is fitted with an integrated short circuit isolator as standard and can be individually disabled. The alarm is triggered by smashing the glass panel, with the detector being available in different versions (IP protection class, colour).

The **WRIS manual call point** is used to manually trigger a fire alarm in hazardous areas (Type A in compliance with EN 54-11) and is ATEX approved. The alarm is triggered by smashing the glass panel, with the detector being available in different versions (IP protection class, colour).

Loop circuit modules.

BA-SOL loop siren for acoustic signalling of a fire alarm in interior spaces. The type of tone is set from the fire alarm control panel, with the volume being set using DIP switches.

BA-FOL flashing light for optical signalling of a fire alarm in interior spaces. The flash rate and the light intensity is set using DIP switches.

The **SBL 501 based-mounted siren** for acoustic signalling of a fire alarm in an interior area (type A pursuant to EN 54-3) is fitted as a unit with a USB 501 detector base. The type of tone is set from the control panel, with the volume being set using DIP switches.

SBL 502 platform siren for acoustic signalling of a fire alarm in interior areas (type A pursuant to EN 54-3). The type of tone is set from the fire alarm control panel, with the volume being set using DIP switches.

The **BA-OI3 input/output module** with relay output with a programmable fail-safe position, two inputs for querying potential-free contacts and an optocoupler input for monitoring external voltages. The module is primarily used for connecting special detectors to the loop technology.

The **BX-AIM input module** with monitored input and parallel indicator output is used to connect threshold detectors to the loop technology or as a branch unit for monitoring hazardous areas.

The **BA-IOM input/output module** with short circuit resistant monitored output and galvanically isolated input for controlling monitored devices, which are supplied with power by an external power supply (e.g. sirens etc.).

The **BA-REL4 relay module** contains 4 bistable relays each with a potential-free double-throw contact with a fail-safe position.

BA-IM4 input module with 4 inputs for monitored and non-monitored querying of potential-free contacts, suitable for handling switching times of more than 330 ms.

Integral RemoteControl Panel.

For accessing data in the fire alarm system from one or more PC workstations. The operating panel of the fire alarm control panel is represented 1:1 on the monitor, and it is possible to access all the information in the fire alarm system using the keyboard and the mouse. A multi-layer security concept ensures that non-authorised system access is blocked. The software only works when used in conjunction with the dongle supplied.

Performance Characteristics:

- 1:1 depiction of the fire alarm control panel's operating panel on a PC
- For Schrack Seconet Integral & Integral C fire alarm control panels
- Clear and easy real-time operation
- Easy to connect to the fire alarm control panel
- Language can be changed during use
- Comprehensive security concept
- Hierarchical password system with individually assigned access privileges and passwords
- Call-back function
- Continuous logging
- Compatible with modem and leased-line connections
- Can be networked
- Programmable server calls in the event of events occurring

Special detectors.

The **AirSCREEN ASD 535** is an active linear smoke aspirating system, consisting of one or two independent aspirating lines, each with a separate evaluation unit and built-in SSD 535 smoke sensors for monitoring rooms and establishments. The smoke sensors are available in different sensitivity classes and can also be adapted to conditions in terms of their sensitivity. A high performance fan transports the air from the room to be monitored through the aspirating line into the evaluation unit. Using airflow monitoring the aspirating line is permanently monitored for pipe breaks and contamination of the aspirating apertures. The aspirated air is constantly evaluated by the smoke sensors, ensuring that an increase in the concentration of smoke is detected very early on. The indicator and operating panel displays the smoke concentration of the aspirated air, as well as alarm, fault and status messages. The ASD 535 also contains four connection slots, in which relay and interface modules can be fitted and connected. For every aspirating line three pre-alarms and one main alarm can be programmed, which are transmitted to the fire alarm control panel either over potential-free contacts or the loop circuit. The "PipeFlow" calculation software can be used for calculating asymmetrical pipework formations.

ADW 511 linear heat detector with temperature change and maximum temperature processing. A testing motor with pressure pump produces a precisely defined desired increased pressure in a sensor tube at regular intervals. The alarm is triggered when a change in volume is detected due to a change in temperature. The detector's response characteristics can be tweaked precisely to suit its specific requirements for its use by intelligently linking the measurement value specifically to its use. If the pressure sensor's measurement value does not correspond to the value it should correspond to, e.g. in the event of a leak occurring or a tube having been squashed, then a fault is displayed. Its robust construction makes it particular suitable for use in detecting fires in hazardous areas (in tunnel systems, hazardous areas, industrial applications etc.).

The **SPC-E linear smoke detector** consists of transmitter and receiver unit and works in the infrared range of the spectrum. The detector is particularly reliable where there is a constantly changing ambient temperature or air humidity, is easy to install and set up and excels in particular due to its low power consumption. The intensity of the infrared rays is corrected automatically, and the sensitivity can be set to one of three levels.

The **ARDEA linear smoke detector** consists of transmitter and receiver unit and is suitable for monitoring areas of up to 3,000 m^2. Detection occurs based on an absorption measurement whilst taking dynamic parameters (smoke modulation) into account, with the detector also set to the flame frequency of an open fire. The ARDEA is also available in special versions for use in hazardous areas and with IP 65 protection class.

The **ECO linear smoke detector** consists of a combined transmitter/receiver unit and a reflector. The infrared beam that is emitted by the transmitter is reflected by the reflector mounted opposite the detector and evaluated. The detector is particularly suited to being used in historical buildings, museums, hotels etc. on account of the low amount of wiring it required.

Flame detector for hazardous areas in an ex-approved case, available as UV, infrared or combined UV/IR detectors. The detectors are suitable for outdoor use, and are particular suitable for use where flames are concealed by smoke thanks to the unit's own particular optical self-monitoring process. All versions are not sensitive to sunlight, with larger flames being detectable from greater distances. All detectors are approved in accordance with ATEX 100a and VdS.

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